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## **ABSTRACT**

This invention provides a compound of the formula (I):

or a pharmaceutically acceptable salt, amide or ester thereof, wherein  $\mathbb{R}^1$  represents a hydrogen atom or a halogen atom;  $\mathbb{R}^2$  represents a hydrogen atom, etc.;  $\mathbb{R}^3$  represents an alkyl group having from 1 to 10 carbon atoms; said alkyl group of  $\mathbb{R}^3$  is substituted by at least one substituent selected from the group consisting of substituents  $\alpha$ ; said substituents  $\alpha$  is aryl, hydroxy, oxo, etc.; said aryl having 6 to 10 carbon atoms; said aryl is unsubstituted or substituted by at least one alkyl group having from 1 to 6 carbon atoms; said heterocyclic and the heterocyclic moiety of said heterocycliccarbonyl, both of substituents  $\alpha$ , are 5- to 10-membered cyclic groups containing from 1 to 4 heteroatoms selected from the group consisting of nitrogen atoms, oxygen atoms and sulfur atoms

These compounds have 5-HT<sub>4</sub> receptor binding activity, and thus are useful for the treatment of gastroesophageal reflux disease, non-ulcer dyspepsia, functional dyspepsia, irritable bowel syndrome or the like in mammalian, especially humans. This invention also provides a pharmaceutical composition comprising the above compound.

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